

VSSC

VSSC4 CL 24VAC/DC 0.5A

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 16

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Germany

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www.weidmueller.com



Overvoltage coupling along the conductor path may disturb or destroy sensitive signal inputs. It is important to provide protection in the immediate vicinity of I&C devices. Weidmüller's broad product range for the I&C sector offers products in a 2-piece, pluggable design and modular terminals for tension clamp or screw connection. These products are suitable for both binary and analogue signals. Weidmüller also offers other designs with integrated components such as gas discharge tubes or varistors. VARITECTOR stands for flexible and variable surge protection by Weidmüller, tested according to product standard IEC61643-21. The VARITECTOR series can be used in applications according to IEC 61643-22 / VDE 0845-3 for classes C1, C2, C3 and D1. The VARITECTOR SPC, SSC and MCZ OVP product families optimally combine electrical and mechanical properties. Size and easy handling play an important role. This surge protection is suited for confined spaces in industrial and process automation as well as in building automation applications.

General ordering data

Type	VSSC4 CL 24VAC/DC 0.5A
Order No.	1063730000
Version	Surge protection for instrumentation and control, 24 V, 34 V, 500 mA, IEC 61643-21
GTIN (EAN)	4032248829088
Qty.	10 pc(s).

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Width	6.2 mm	Width (inches)	0.244 inch
Height	76 mm	Height (inches)	2.992 inch
Depth	58.5 mm	Depth (inches)	2.303 inch
Net weight	26.6 g		

Temperatures

Humidity	5...96 %	Operating temperature, max.	70 °C
Operating temperature, min.	-40 °C	Storage temperature, max.	80 °C
Storage temperature, min.	-40 °C	Operating temperature	-40 °C...70 °C
Storage temperature	-40 °C...80 °C		

Probability of failure

λ_{ges}	19	MTTF	6,008 Jahre
PFH in $1 \cdot 10^{-9}$ per hour	1.95	SFF	89.74 %
SIL in compliance with IEC 61508	2		

CSA protection data

Gas group C	IIB	Gas group D	IIA
Gas groups A, B	IIC	Input current, max. I_I	500 mA
Input voltage, max. U_i	42 V	Internal capacity, max. C_i	1 nF
Internal inductance, max. L_i	0 μ H		

General data

Colour	Black	Design	Terminal
Isolating function	No	Mounting rail	TS 35
Optical function display	No	Protection degree	IP20
Segment	Instrumentation and Control	UL 94 flammability rating	V-0
Version	Surge protection for measurement and control		

Insulation coordination acc. to EN 50178

Pollution severity	2	Surge voltage category	III
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Technical data**Rated data IEC / EN**

Discharge current I_{max} (8/20 μ s) wire-PE	5 kA	Discharge current I_{max} (8/20 μ s) wire-wire	5 kA
Discharge current I_n (8/20 μ s) wire-PE	2.5 kA	Discharge current I_n (8/20 μ s) wire-wire	2.5 kA
Discharge current, max. (8/20 μ s)	10 kA	Fuse	0.5 A
Insertion loss	3.45 MHz	Lightning test current I_{imp} (10/350 μ s)	0.5 kA
Lightning test current, I_{imp} (10/350 μ s) Wire-PE	0.5 kA	Max. continuous voltage, U_c (AC)	30 V
Max. continuous voltage, U_c (DC)	42 V	Overload - failure mode	Modus 2
Protection level U_p (typ.)	< 1000 V	Pulse-reset capacity	\leq 150 ms
Rated current I_N	500 mA	Rated voltage (AC)	24 V
Rated voltage (DC)	34 V	Requirements category acc. to IEC 61643-21	C2, C3, D1
Signal transmission properties (-3 dB)	3.4 MHz	Standards	IEC 61643-21
Surge current-carrying capacity C2	2.5 kA 8/20 μ s 5 kV 1.2/50 μ s	Surge current-carrying capacity C3	50 A 10/1000 μ s
Surge current-carrying capacity D1	0.5 kA 10/350 μ s	Voltage type	AC/DC
Volume resistance	1.8 Ω 10 %		

Further details of approvals

GOST certificate	GOST-Zertifikat
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Connection data

Type of connection	Screw connection, Torx [®] T15, Slotted 0.8 x 4	Stripping length, rated connection	8 mm
Tightening torque, min.	0.5 Nm	Tightening torque, max.	0.8 Nm
Clamping range, min.	0.5 mm ²	Clamping range, max.	4 mm ²
Wire cross-section, solid, min.	0.5 mm ²	Wire cross-section, solid, max.	6 mm ²
Conductor cross-section, flexible, AEH (DIN 46228-1), min.	0.5 mm ²	Conductor cross-section, flexible, AEH (DIN 46228-1), max.	4 mm ²
Connection cross-section, stranded, min.	0.5 mm ²	Connection cross-section, stranded, max.	4 mm ²

Rated data UL

Certificate No. (UL)	E311081	UL certificate	UL Zertifikat
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Ratings IECEx/ATEX/cUL

cUL certificate	cUL Certificate
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Classifications

ETIM 3.0	EC000943	ETIM 4.0	EC000381
ETIM 5.0	EC000943	ETIM 6.0	EC000943
UNSPSC	30-21-19-21	eClass 5.1	27-13-08-01
eClass 6.2	27-13-08-02	eClass 7.1	27-13-08-09
eClass 8.1	27-13-08-11	eClass 9.0	27-13-08-11
eClass 9.1	27-13-08-07		

Data sheet

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Technical data

Product information

Descriptive text ordering data	End plate AP VSSC4 1063120000
Descriptive text accessories	Screwdrivers: Torx® 9009170000 Slot 0.8x4.0 9008340000 EMC Set: 1067470000 Marker: WS10/6 1818400000; DEK 6 0468560000; DEK 5 1768260000; SNAPMARK 1805880000

Approvals

Approvals



ROHS	Conform
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Downloads

Approval/Certificate/Document of Conformity	SIL Paper CE PAPER
Brochure/Catalogue	CAT 4.4 ELECTR 16/17 EN
Engineering Data	EPLAN, WSCAD
Engineering Data	STEP
User Documentation	Instruction sheet VSSC

Data sheet

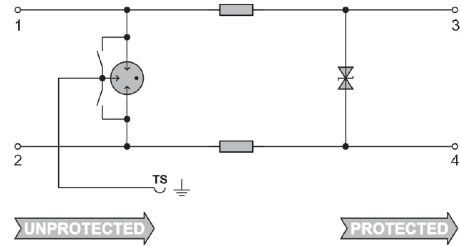
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Drawings



Similar to illustration



Circuit diagram

